

P.O. Box 14300, Washington, DC 20044-4300 • p202 624-2500 • f202 626-8844

crowell moring

10/ 507,177

FACSIMILE COVER PAGEDate January 23, 2006To: Anita JohnsonFacsimile Telephone Number: 571-273-9880Total Number of Pages (Includes Cover Sheet): 6From: Gary R. Edwards, Reg. No. 31,824Phone: 202-624-2500Serial No.: 10/507,177User ID: 1317Attorney Docket No: 101709.55374US

Message: Per your recent telephone request, attached is a third submission with an express request to begin national examination procedures. If you have any questions in this regard, please do not hesitate to contact me.

Hard Copy to Follow: ☐ Yes ☒ No

THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL TO WHOM, OR ENTITY TO WHICH, IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL, AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW.

If the reader of this message is not the intended recipient or the employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is prohibited. If you have received this communication in error, please notify us immediately by telephone (collect), and return the original message to us at the address listed above via the U.S. Postal Service.

Thank You

GRE:kms 2704266v1

Crowell &amp; Moring LLP • www.crowell.com • Washington • Irvine • London • Brussels

PTO-1390 (Rev. 07-2005)

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		<b>ATTORNEY'S DOCKET NUMBER</b> <b>101709.55374US</b>	
		<b>U.S. APPLICATION NO. (If known, see 37 CFR 1.5)</b> <b>10/507,177</b>	
<b>INTERNATIONAL APPLICATION NO.</b> <b>PCT/GB04/003272</b>	<b>INTERNATIONAL FILING DATE</b> <b>28 July 2004 (28.07.2004)</b>	<b>PRIORITY DATE CLAIMED</b> <b>21 August 2003 (21.08.2003)</b>	
<b>TITLE OF INVENTION</b> <b>REFLECTION REDUCTION</b>			
<b>APPLICANT(S) FOR DO/EO/US</b> <b>Michael M. BUTLER</b>			
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:			
<ol style="list-style-type: none"> <li>1. <input type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li>2. <input checked="" type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</li> <li>4. <input type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol>			
Items 11 to 20 below concern document(s) or information included:			
<ol style="list-style-type: none"> <li>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>13. <input type="checkbox"/> A preliminary amendment.</li> <li>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</li> <li>15. <input type="checkbox"/> A substitute specification.</li> <li>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</li> <li>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825.</li> <li>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</li> <li>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</li> <li>20. <input type="checkbox"/> Other items or information:</li> </ol>			

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Page 1 of 2


**THIS PAGE BLANK (USPTO)**

PTO-1390 (Rev. 02-2005)

Approved for use in 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (If known, see 37 CFR 1.5) <b>10/507,177</b>		INTERNATIONAL APPLICATION NO.		ATTORNEY'S DOCKET NUMBER <b>101709.55374US</b>	
				CALCULATIONS PTO USE ONLY	
21. <input checked="" type="checkbox"/> The following fees have been submitted					
Basic national fee (37 C.F.R. §1.492(a)).....				\$300.00	
22. <input checked="" type="checkbox"/> Examination fee (37 C.F.R. §1.492(c))					
If the written opinion prepared by ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) .....				\$0.00	
All other situations .....				\$200.00	
23. <input checked="" type="checkbox"/> Search fee (37 C.F.R. §1.492(b))					
If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) .....				\$0	
Search fee (37 CFR 1.445(a)(2)) has been paid on the International application to the USPTO as an International Searching Authority.....				\$100	
International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB .....				\$400	
All other situations .....				\$500	
<b>TOTAL OF 21, 22 AND 23 =</b>					\$
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)		RATE	
- 100	/ 50 =			x 250	\$
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)).					\$
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total claims	- 20		x 50		\$
Independent claims	- 3		x 200		\$
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ 360		\$
<b>TOTAL OF ABOVE CALCULATIONS =</b>					\$
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.					
<b>SUBTOTAL =</b>					\$
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).					\$
<b>TOTAL NATIONAL FEE =</b>					\$
Fee for recording the enclosed assignment (37 CFR 1.21 (h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.26, 3.31). \$40.00 per property .....					\$
<b>TOTAL FEES ENCLOSED =</b>					\$
				Amount to be refunded:	\$
				Amount to be charged:	\$
<p>a. <input type="checkbox"/> A check in the amount of \$ to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. 05-1323 (Attorney Docket No. 101709.55374US) in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 05-1323 (Attorney Docket No. 101709.55374US). A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p>					
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.					
SEND ALL CORRESPONDENCE TO: Crowell & Moring, LLP Intellectual Property Group P.O. Box 14300 Washington, D.C. 20044-4300 Tel. No. (202) 624-2500 Fax No. (202) 628-8844			 SIGNATURE Gary R. Edwards NAME 31.824 REGISTRATION NUMBER January 24, 2006 DATE		
GRE:kms 2704254v1			Page 2 of 2		

FORM PTO-1390 (REV. 02-2005)

BEST AVAILABLE COPY

10-JAN-2006 10:47 FROM Intellectual Prop

TO CROWELL MOR

P.03/10

## PCT

## REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only

International Application No.

International Filing Date

Name of receiving Office and "PCT International Application"

Applicant's or agent's file reference  
(if desired) (12 characters maximum) XA1818

Box No. I TITLE OF INVENTION REFLECTION REDUCTION	
Box No. II AFFILIANT <input type="checkbox"/> This person is also inventor	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) Alenia Marconi Systems Limited Eastwood House Glebe Road Chelmsford, Essex CM1 1QW, United Kingdom	
Telephone No. +44 (0) 1252 383270	
Facsimile No. +44 (0) 1252 383091	
Teleprinter No.	
Applicant's registration No. with the Office	
State (that is, country) of nationality: GB	
State (that is, country) of residence: GB	
This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input checked="" type="checkbox"/> all designated States except the United States of America <input type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box	
Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) BUTLER, Michael Maurice AMS Radar Systems (Land Systems UK) Systems Engineering Newport Road, Cowes Isle of Wight, PO31 8PF United Kingdom	
This person is: <input type="checkbox"/> applicant only <input checked="" type="checkbox"/> applicant and inventor <input type="checkbox"/> inventor only (if this check-box is marked, do not fill in below.)	
Applicant's registration No. with the Office	
State (that is, country) of nationality: GB	
State (that is, country) of residence: GB	
This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input checked="" type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box	
<input type="checkbox"/> Further applicants and/or (further) inventors are indicated on a continuation sheet.	
Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE	
The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as: <input checked="" type="checkbox"/> agent <input type="checkbox"/> common representative	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) Intellectual Property Department BAE SYSTEMS plc Lancaster House, PO Box 87 Farnborough Aerospace Centre Farnborough, Hampshire, GU14 6YU United Kingdom	
Telephone No. +44 (0) 1252 383270	
Facsimile No. +44 (0) 1252 383091	
Teleprinter No.	
Agent's registration No. with the Office	
<input type="checkbox"/> Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.	

Form PCT/RO/101 (first sheet) (January 2004)

See Notes to the request form

BEST AVAILABLE COPY

PAGE 3/10 \* RCVD AT 1/10/2006 5:42:12 AM [Eastern Standard Time] \* SVR:DCNTFAX01/0 \* DNIS:6285116 \* CSID:01252 383091 \* DURATION (mm:ss):04-10

PAGE 4/6 \* RCVD AT 1/23/2006 4:27:09 PM [Eastern Standard Time] \* SVR:USPTO-EFAXF-6/28 \* DNIS:2739880 \* CSID: \* DURATION (mm:ss):02-22

10-JAN-2006 10:48 FROM Intellectual Prop

TO CROWELL MOR

P.04/10

Sheet No. ...2....

Box No. V DESIGNATIONS				
The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents. However, <input type="checkbox"/> DE Germany is not designated for any kind of national protection <input type="checkbox"/> KR Republic of Korea is not designated for any kind of national protection <input type="checkbox"/> RU Russian Federation is not designated for any kind of national protection <i>(The check-boxes above may be used to exclude (irrevocably) the designations concerned in order to avoid the ceasing of the effect, under the national law, of an earlier national application from which priority is claimed. See the Notes to Box No. V as to the consequences of such national law provisions in these and certain other States.)</i>				
Box No. VI PRIORITY CLAIM				
The priority of the following earlier application(s) is hereby claimed:				
Filing date of earlier application (day/month/year)	Number of earlier application	Where earlier application is:		
		national application: country or Member of WTO	regional application: regional Office	international application: receiving Office
item (1) 21 August 2003 (21/08/2003)	0319636.7	GB		
item (2) 21 August 2003 (21/08/2003)	03255172.3		EP	
item (3)				
<input type="checkbox"/> Further priority claims are indicated in the Supplemental Box.				
The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office) identified above as: <input type="checkbox"/> all items <input checked="" type="checkbox"/> item (1) <input type="checkbox"/> item (2) <input type="checkbox"/> item (3) <input type="checkbox"/> other, see Supplemental Box * Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)): .....				
Box No. VII INTERNATIONAL SEARCHING AUTHORITY				
Choice of International Searching Authority (ISA) (if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used): ISA / EP..... Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority): Date (day/month/year) 12 January 2004 Number 03255172.3 Country (or regional Office) EP, The Hague				
Box No. VIII DECLARATIONS				
The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable check-boxes below and indicate in the right column the number of each type of declaration):				Number of declarations
<input type="checkbox"/> Box No. VIII (i)	Declaration as to the identity of the inventor			:
<input type="checkbox"/> Box No. VIII (ii)	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent			:
<input type="checkbox"/> Box No. VIII (iii)	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application			:
<input type="checkbox"/> Box No. VIII (iv)	Declaration of inventorship (only for the purposes of the designation of the United States of America)			:
<input type="checkbox"/> Box No. VIII (v)	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty			:

Form PCT/RO/101 (second sheet) (January 2004)

BEST AVAILABLE COPY


See Notes to the request form

10-JAN-2006 10:48 FROM Intellectual Prop

TO CROWELL MOR

P.05/10

Sheet No. ....3

Box No. IX CHECK LIST; LANGUAGE OF FILING		Number of items
This international application contains:		
(a) in paper form, the following number of sheets:		
request (including declaration sheets)	3	
description (excluding sequence listing and/or tables related thereto)	6	
claims	2	
abstract	1	
drawings	1	
Sub-total number of sheets	13	
sequence listing		
tables related thereto		
<i>(for both, actual number of sheets if filed in paper form, whether or not also filed in computer readable form; see (c) below)</i>		
Total number of sheets	13	
(b) <input type="checkbox"/> only in computer readable form (Section 801(a)(i))		
(i) <input type="checkbox"/> sequence listing		
(ii) <input type="checkbox"/> tables related thereto		
(c) <input type="checkbox"/> also in computer readable form (Section 801(a)(ii))		
(i) <input type="checkbox"/> sequence listing		
(ii) <input type="checkbox"/> tables related thereto		
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the		
<input type="checkbox"/> sequence listing:		
<input type="checkbox"/> tables related thereto:		
<i>(additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)</i>		
This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):		
1. <input checked="" type="checkbox"/> fee calculation sheet		
2. <input type="checkbox"/> original separate power of attorney		
3. <input type="checkbox"/> original general power of attorney		
4. <input checked="" type="checkbox"/> copy of general power of attorney; reference number, if any:		
5. <input type="checkbox"/> statement explaining lack of signature		
6. <input type="checkbox"/> priority document(s) identified in Box No. VI as item(s):		
7. <input type="checkbox"/> translation of international application into (language):		
8. <input type="checkbox"/> separate indications concerning deposited microorganism or other biological material		
9. <input type="checkbox"/> sequence listing in computer readable form (indicate type and number of carriers)		
(i) <input type="checkbox"/> copy submitted for the purposes of international search under Rule 13ter only (and not as part of the international application):		
(ii) <input type="checkbox"/> (only where check-box (b)(i) or (c)(i) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Rule 13ter		
(iii) <input type="checkbox"/> together with relevant statement as to the identity of the copy or copies with the sequence listing mentioned in left column		
10. <input type="checkbox"/> tables in computer readable form related to sequence listing (indicate type and number of carriers)		
(i) <input type="checkbox"/> copy submitted for the purposes of international search under Section 802(b-quater) only (and not as part of the international application)		
(ii) <input type="checkbox"/> (only where check-box (b)(ii) or (c)(ii) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Section 802(b-quater)		
(iii) <input type="checkbox"/> together with relevant statement as to the identity of the copy or copies with the tables mentioned in left column		
11. <input checked="" type="checkbox"/> other (specify): PF, 23/77		
Figure of the drawings which should accompany the abstract		1
Language of filing of the international application:		ENGLISH
Box No. X SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE		
Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).		
 MACKETT, Margaret Dawn Agent for Applicant		
Per receiving Office use only		
1. Date of actual receipt of the purported international application:		2. Drawings: <input type="checkbox"/> received:  <input type="checkbox"/> not received:
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:		
4. Date of timely receipt of the required corrections under PCT Article 17(2):		
5. International Searching Authority (if two or more are competent): ISA /		6. <input type="checkbox"/> Transmittal of search copy delayed until search fee is paid
Per International Bureau use only		
Date of receipt of the record copy by the International Bureau:		

Form PCT/RO/101 (last sheet) (January 2004)

See Notes to the request form

BEST AVAILABLE COPY